| Sl. No | Description of Item | Unit |
|---|---|---|
| | **Annual Maintenance and Repairs to Electrical Installation at J.C.(Yelahanka) Zonal office building, Bytarayanapura** | |
| 1 | Electrician ( Licenced Electrical wiremen fitter/Electrician with tools) Basic Rs. 140.20 Per Day Per Person. + DA Rs. 84.73 Per Day Per Person = Rs. 224.93 Per Day Per Person<br>Total 96 days in an year<br>(Weekly Twice i.e 8 days in a month X 12 month) | Days/person |
| 2 | Helper<br>Basic Rs. 140.20 Per Day Per Person. + DA Rs. 84.73 Per Day Per Person = Rs. 224.93 Per Day Per Person<br>Total 96 days in an year<br>(Weekly Twice i.e 8days in a month X 12 month) | Days/person |
| 3 | Releasing the existing FTL Fitting all capacities, checking, testing and installing at same place. P.No-105 I.No-16.12 | Each |
| 4 | Supplying and fixing/replacing of fluorescent tube.<br>18 to 40Watts P.No-105 I.No-16.15.1 | Each |
| 5 | Supply and fixing of heavy duty open construction ferromagnetic copper ballast for 20/40 watts fluorescent tubes. P.No-105 I.No-16.11 | Each |
| 6 | Supply and fixing of 230 volts 20/40 watts starter for fluorescent lamp.. P.No-105 I.No-16.18 | Each |
| 7 | Supply and fixing of 230 volts 20/40 watts fluorescent lamp holder.<br>P.No-105 I.No-16.18 | No |
| 8 | Supply and fixing of 230 volts CFL lamp holder 2Pin Holder<br>P.No-105 I.No-16.20.1 | No |
| 9 | Supply and fixing of 230 volts CFL lamp starter base<br>P.No-106 I.No-16.22 | No |
| 10 | Supplying of of 2 pin/4 pin 9-11W CFL Lamp P.No-29 I.No-4.38.16 | Each |
| 11 | Releasing the existing fan checking, testing and installation at the same place.P.No-104 I.No- 16.80 | Each |
| 12 | Supplying and fixing/replacing condenser for ceiling fan/MV/SV/MH and other luminaries. upto 4mfd<br>P.No-104 I.No- 16.3.1 | Each |
| 13 | Supplying and replacing ceiling fan regulator 900mm to 1500mm<br>P.No-104 I.No- 16.6 | Each |
| 14 | Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac, etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing.1200MM P.No-104 I.No- 16.4.3 | Each |
| 15 | Supplying and fixing one of 230 volts Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws Remote type P.No-104 I.No- 16.2.3 | Each |
| 16 | Supplying and fixing 6Amps capacity 4 way universal shutter type spike buster suitable to operate on 230V 50Hz AC Supply.<br>P.No-104 I.No- 16.27 | No |
| 17 | Operator Light/Pump Vibrator/Grinder/Air Conditioner<br>Basic Rs. 140.20 Per Day Per Person. + DA Rs. 84.73 Per Day Per Person = Rs. 224.93 Per Day Per Person<br>Total 48 days in an year .<br>(Weekly Twice i.e 4 days in a month X 12 month) | Days/person |

| Previous Measurement | | Present Measurement | | | Total Upto Date | | Remarks |
|---|---|---|---|---|---|---|---|
| Qty | Cost | Qty | Rate | Amount | Qty | Cost | |
| 45 | 7200.00 | 51 | 160.00 | 8160.00 | 96 | 15360.00 | |
| 45 | 7200.00 | 51 | 160.00 | 8160.00 | 96 | 15360.00 | |
| 27 | 810.00 | 23 | 30.00 | 690.00 | 50 | 1500.00 | |
| 20 | 1500.00 | 5 | 75.00 | 375.00 | 25 | 1875.00 | |
| 21 | 3150.00 | 4 | 150.00 | 600.00 | 25 | 3750.00 | |
| 23 | 690.00 | 22 | 30.00 | 660.00 | 45 | 1350.00 | |
| 19 | 570.00 | 20 | 30.00 | 600.00 | 39 | 1170.00 | |
| 42 | 2520.00 | 57 | 60.00 | 3420.00 | 99 | 5940.00 | |
| 20 | 600.00 | 30 | 30.00 | 900.00 | 50 | 1500.00 | |
| 65 | 4875.00 | 30 | 75.00 | 2250.00 | 95 | 7125.00 | |
| 8 | 200.00 | 7 | 25.00 | 175.00 | 15 | 375.00 | |
| 8 | 640.00 | 7 | 80.00 | 560.00 | 15 | 1200.00 | |
| 5 | 750.00 | 5 | 150.00 | 750.00 | 10 | 1500.00 | |
| 5 | 2500.00 | 5 | 500.00 | 2500.00 | 10 | 5000.00 | |
| 3 | 2700.00 | 2 | 900.00 | 1800.00 | 5 | 4500.00 | |
| 2 | 1200.00 | 2 | 600.00 | 1200.00 | 4 | 2400.00 | |
| 24 | 14400.00 | 24 | 600.00 | 14400.00 | 48 | 28800.00 | |

| | | |
|---|---|---|
| 18 | Cleaner<br>Basic Rs. 140.20 Per Day Per Person. + DA Rs. 84.73 Per Day Per Person = Rs. 224.93 Per Day Per Person<br>Total 48 days in an year<br>(Weekly Twice i.e 4 days in a month X 12 month) | Days/person |
| 19 | Supplying and installation of insulated refrigerant copper tubing of 5/8`` and 3/8`` with polythene foam insulation 3 core 80 stand copper wiring between indoor and outdoor unit. Leak testing oil and gas charging for additional piping length of tube. Split type<br>P.No-79 I.No- 9.11 | mtr |
| 20 | Supplying and fixing capacitor`s (of approved make) for window /split air conditioners. 25 to 45mfd running capacitor. P.No-80 I.No-9.14.1 | Each |
| 21 | Supplying and fixing capacitor`s (of approved make) for window /split air conditioners. 80 to 200mfd starting capacitor.. P.No-80 I.No-9.14.2 | Each |
| 22 | Supplying & fixing relay for over load protection for window and split air conditioners. P.No-80 I.No-9.15 | Each |
| 23 | Supplying and fixing the fan motor for blowers and condenser of 1/5 HP, single shaft/double shaft suitable for split/ window air conditioners. P.No-80 I.No-9.16 | Each |
| 24 | Supplying & filling refrigerent (F-22/F/12) for air conditioning equipments. Which includes the labour & Nitrogen gas for pressure and leak testing.P.No-80 I.No-9.17 | P/Kg |
| 25 | Supplying & fixing of thermostat for window type air conditioner. Multi range 30 to 60 degree Centigrade (without probe), adjustable universal type. P.No-80 I.No-9.18 | Each |
| 26 | Supplying and fixing electro mechanical / Pneumatic time switches.<br>P.No-80 I.No-9.19 | Each |
| 27 | Supplying, erecting, testing and commissioning of voltage stabilizer suitable for 170 to 270 v in put and load variation from no load to full load, with over load protection, spike suppression, operating at 00 C to 400 C. Range etc., complete. 5KVA Capacity P.No-88 I.No. 12.1.3 | Each |
| 28 | Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet.<br>GROUP A | |
| | 2.3.1) Short point upto 3Mtr from tapping point to out let via switch box | Point |
| | 2.3.2) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box | Point |
| | 2.3.3) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box | Point |
| 29 | Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm .... etc. as required.1.8.2)25mm | mtr |
| | 1.8.3) 32mm | mtr |
| 30 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.<br>2.5.2) 1.5 sqmm. | Mtr |
| | 2.5.3) 2.5 sqmm. | Mtr |
| | 2.5.4) 4 sqmm. | Mtr |
| 31 | Switches & Sockets & Accessories<br>Supplying 6A flush type socket and 6 amps flush type SP switch either surface/flush mounting in existing gang box or in 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required as per IS 1293 and IS 3654<br>3.1.2) 6Amps 3/5 Way | Each |
| 32 | Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete<br>1.6.3) 10"x7"x3" (254x178x76mm) | Each |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 24 | 4800.00 | 24 | 200.00 | 4800.00 | 48 | 9600.00 | |
| 10 | 10000.00 | 0 | 1000.00 | 0.00 | 10 | 10000.00 | |
| 2 | 900.00 | 3 | 450.00 | 1350.00 | 5 | 2250.00 | |
| 1 | 500.00 | 2 | 500.00 | 1000.00 | 3 | 1500.00 | |
| 2 | 600.00 | 2 | 300.00 | 600.00 | 4 | 1200.00 | |
| 2 | 6000.00 | 0 | 3000.00 | 0.00 | 2 | 6000.00 | |
| 14 | 11200.00 | 16 | 800.00 | 12800.00 | 30 | 24000.00 | |
| 1 | 450.00 | 1 | 450.00 | 450.00 | 2 | 900.00 | |
| 1 | 1100.00 | 1 | 1100.00 | 1100.00 | 2 | 2200.00 | |
| 2 | 9000.00 | 0 | 4500.00 | 0.00 | 2 | 9000.00 | |
| | | | | | | | |
| 0 | 0.00 | 10 | 150.00 | 1500.00 | 10 | 1500.00 | |
| 0 | 0.00 | 8 | 200.00 | 1600.00 | 8 | 1600.00 | |
| 0 | 0.00 | 5 | 300.00 | 1500.00 | 5 | 1500.00 | |
| 0 | 0.00 | 23 | 20.00 | 460.00 | 23 | 460.00 | |
| 0 | 0.00 | 21 | 30.00 | 630.00 | 21 | 630.00 | |
| 0 | 0.00 | 149 | 5.00 | 745.00 | 149 | 745.00 | |
| 0 | 0.00 | 289 | 20.00 | 5780.00 | 289 | 5780.00 | |
| 0 | 0.00 | 50 | 35.00 | 1750.00 | 50 | 1750.00 | |
| 0 | 0.00 | 15 | 120.00 | 1800.00 | 15 | 1800.00 | |
| 0 | 0.00 | 5 | 70.00 | 350.00 | 5 | 350.00 | |

| | | |
|---|---|---|
| 33 | Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws. | Sqcm |
| 34 | Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.<br>GROUP A | nos |
| | 3.15.5) 6Amps Bakelite ceiling rose | nos |
| | 3.15.1) 6Amps SP Switch | nos |
| | 3.15.3) 6Amps 3 way 5 pin Socket | nos |
| | 3.15.6) 6 Amps lamp holder | nos |
| | 3.15.13) 16/6 Amps combined plug and socket with control switch | nos |
| | 3.15.8) 6 Amps bell buzzer | |
| 35 | Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B<br>3.7.18) 1000-1200Watts Dimmer | Each |
| 36 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.<br>6.16.3) 5-32 Amps DP | Each |
| | 6.16.1) 5-32Amps SP | Each |
| 37 | Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia | No |
| 38 | Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.<br>6.7.2) 32Amps | Each |
| 39 | Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition | |
| | 4.33.1) LED modular down light 1'x1'-36 watts | No |
| | 4.33.2) LED modular down light 2'x2'-36 watts | No |
| 40 | Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.<br>17.7.1) On wall / ceiling / Rafter / Girders | Each |
| 41 | Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp. | Each |
| | Grand Total Rs | |

Certificate: 1. The Above said Work has been carreidout satisfactorily

Asst. Executive Engineer (Elec.)
Yelahanka Sub-Division
Bruhat Bangalore Mahanagara Palike

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | 0.00 | 2500 | 0.25 | 625.00 | 2500 | 625.00 | |
| 0 | 0.00 | 10 | 30.00 | 300.00 | 10 | 300.00 | |
| 0 | 0.00 | 15 | 30.00 | 450.00 | 15 | 450.00 | |
| 0 | 0.00 | 5 | 40.00 | 200.00 | 5 | 200.00 | |
| 0 | 0.00 | 10 | 35.00 | 350.00 | 10 | 350.00 | |
| 0 | 0.00 | 2 | 250.00 | 500.00 | 2 | 500.00 | |
| 0 | 0.00 | 3 | 100.00 | 300.00 | 3 | 300.00 | |
| 3 | 1200.00 | 2 | 400.00 | 800.00 | 5 | 2000.00 | |
| 3 | 2250.00 | 4 | 750.00 | 3000.00 | 7 | 5250.00 | |
| 2 | 760.00 | 2 | 380.00 | 760.00 | 4 | 1520.00 | |
| 2 | 5000.00 | 1 | 2500.00 | 2500.00 | 3 | 7500.00 | |
| 3 | 480.00 | 3 | 160.00 | 480.00 | 6 | 960.00 | |
| | 0.00 | | | 0.00 | 0 | 0.00 | |
| 31 | 201500.00 | 4 | 6500.00 | 26000.00 | 35 | 227500.00 | |
| 14 | 9800.00 | 0 | 700.00 | 0.00 | 14 | 9800.00 | |
| 31 | 2325.00 | 18 | 75.00 | 1350.00 | 49 | 3675.00 | |
| 0 | 0.00 | 5 | 700.00 | 3500.00 | 5 | 3500.00 | |
| | 319370.00 | | | **126530.00** | | **445900.00** | |